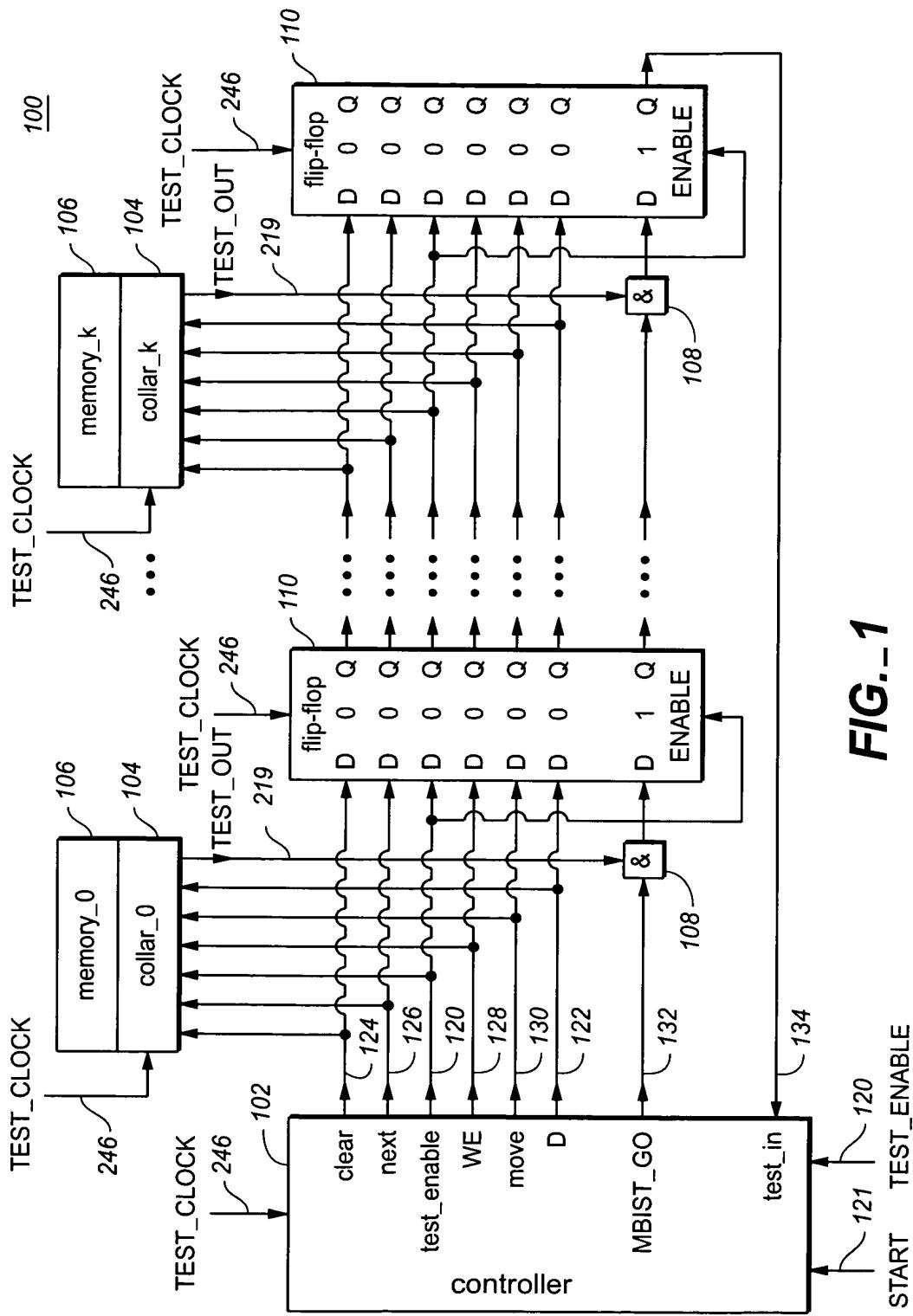




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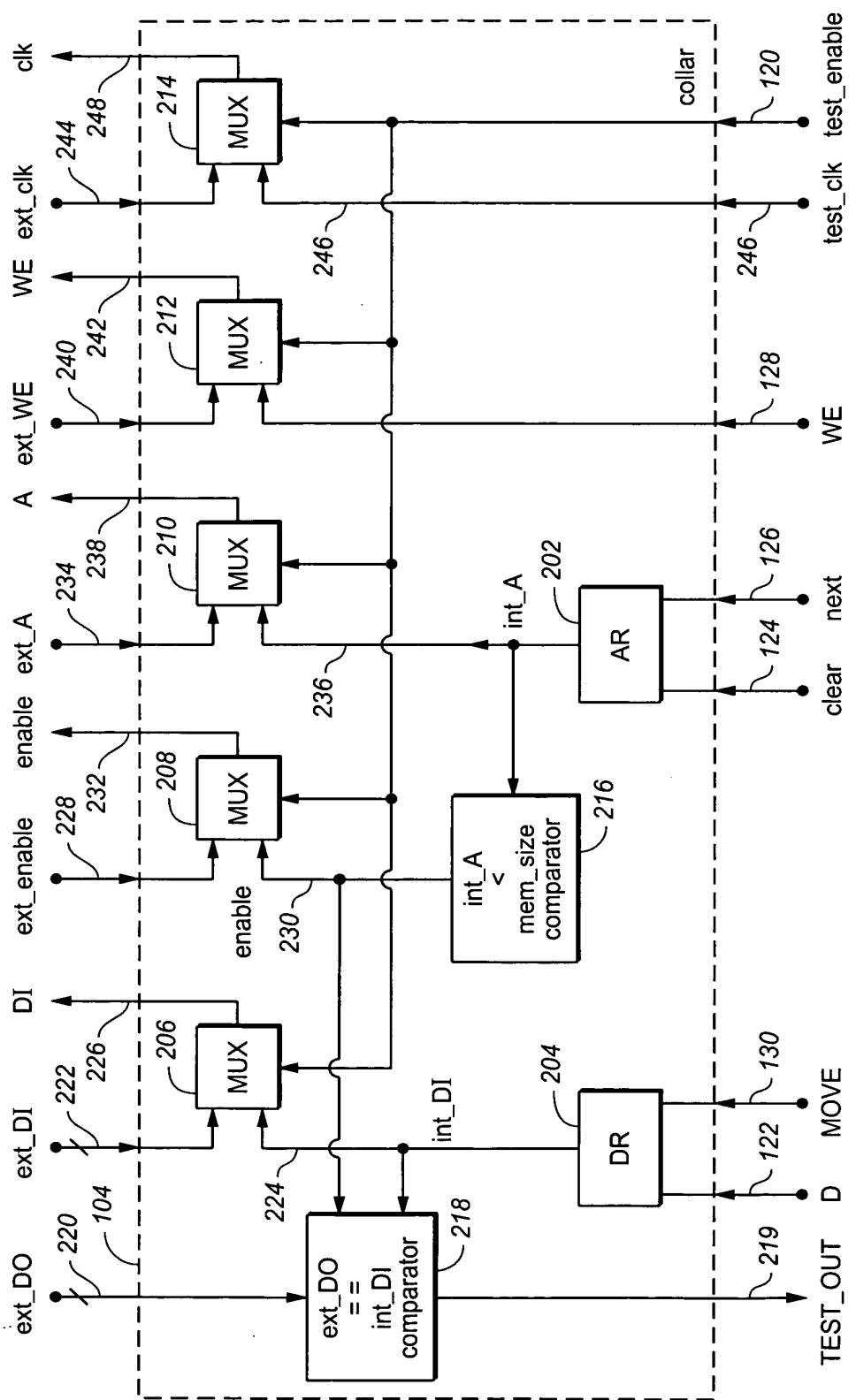


FIG. 2



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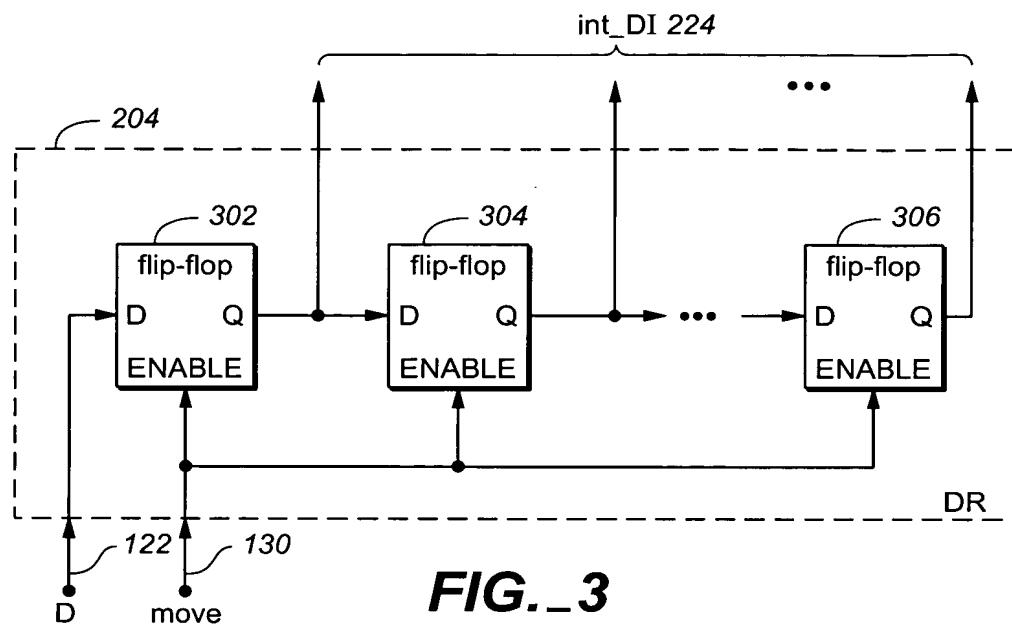


FIG. 3

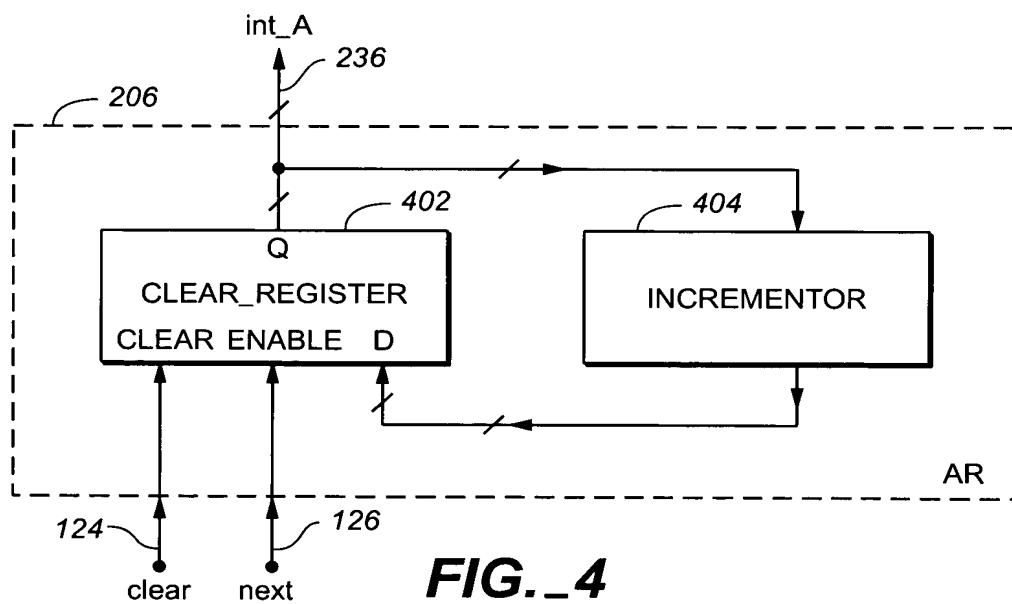


FIG. 4

500

FIG._5A

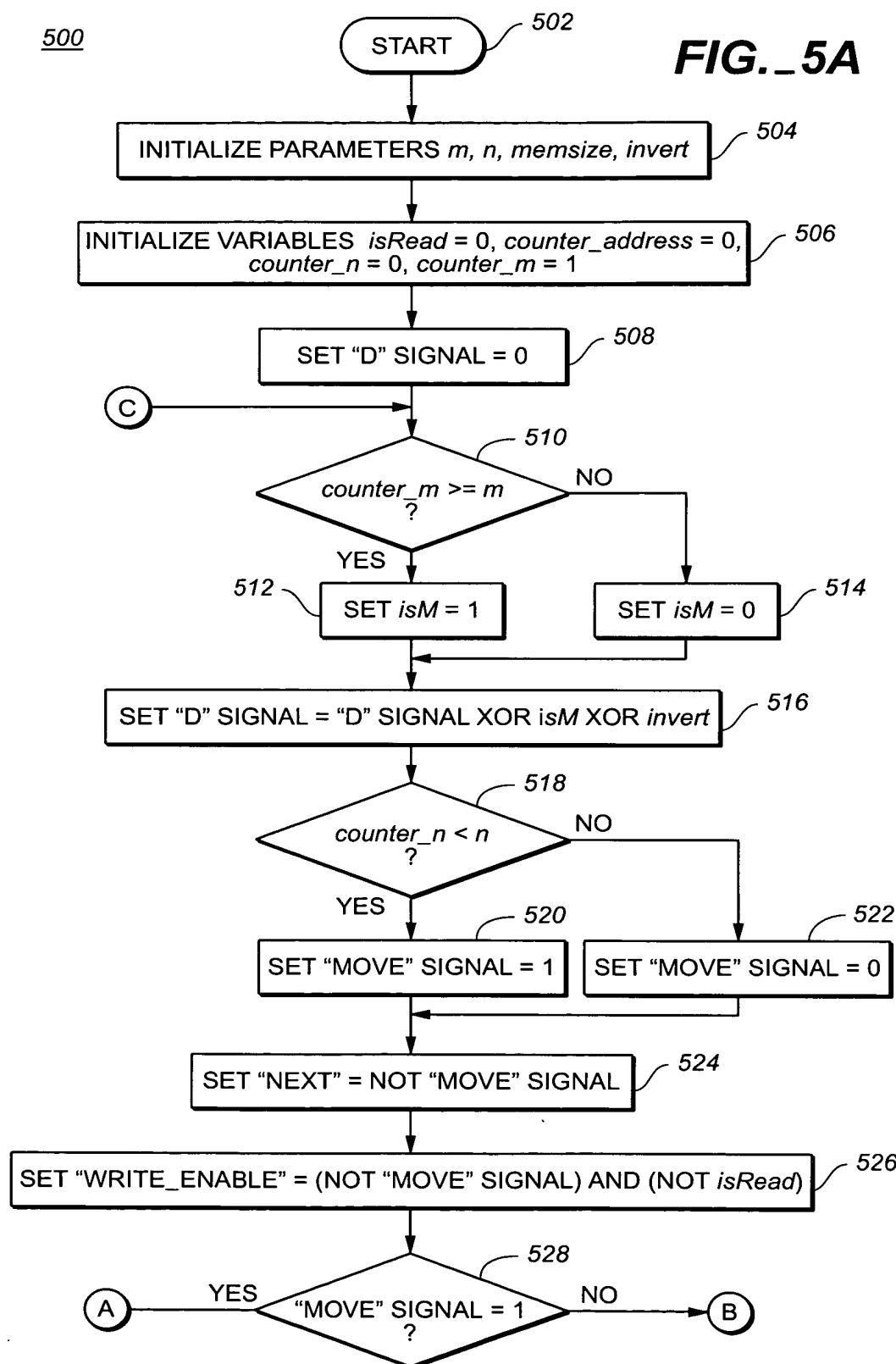
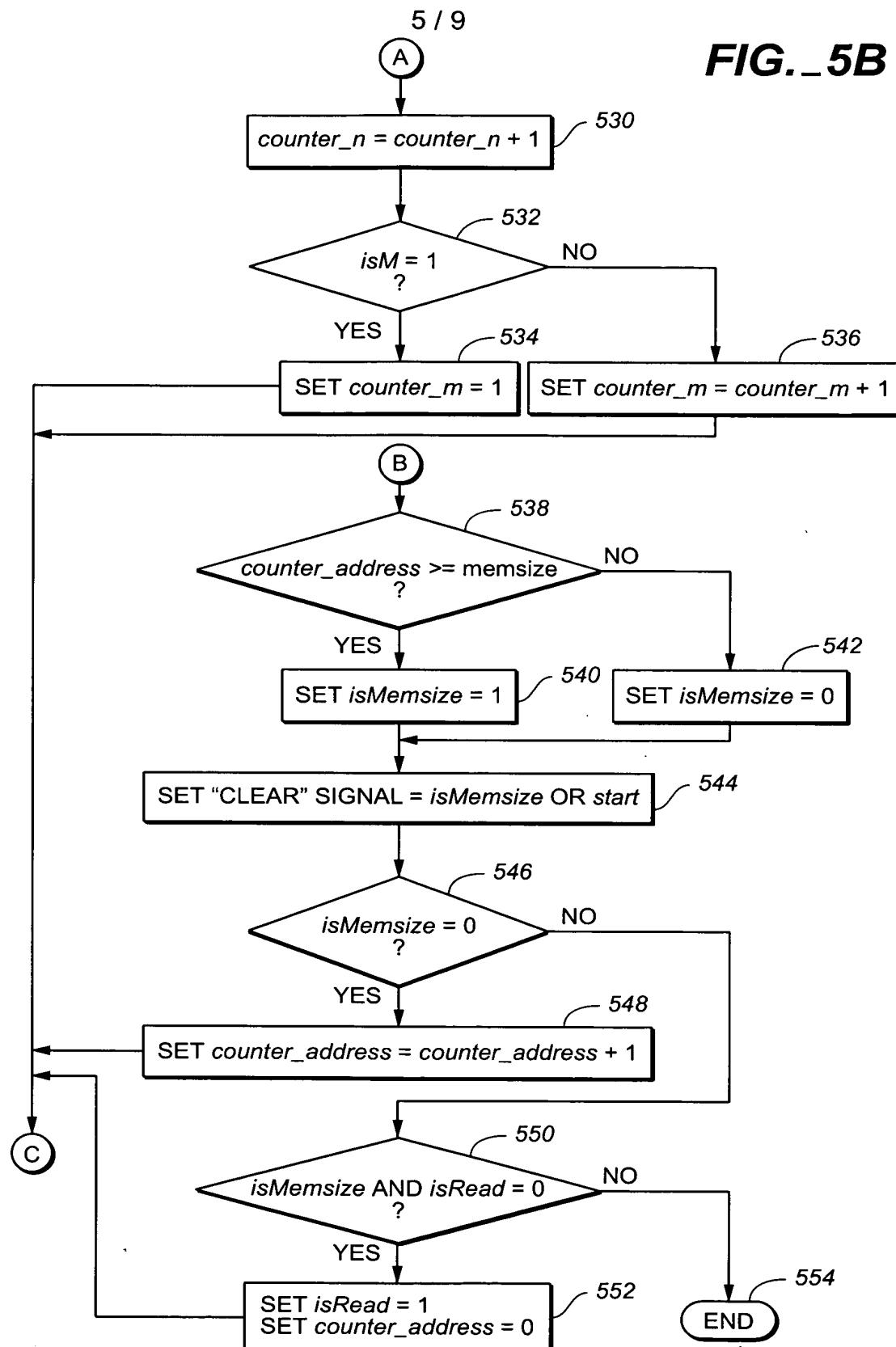




FIG._5B



**FIG._6**

	fill DR(n steps)	memory write (memsize steps)	memory read (memsize steps)
clear	1 0 0 ...	0 0 0 ...	0 1 0 ... 0
move	1 1 1 ...	1 0 0 ...	0 0 0 ... 0
next	0 0 0 ...	0 1 1 ...	1 1 1 ... 1
WE	0 0 0 ...	0 1 1 ...	1 0 0 ... 0
D	0...0 1...1 0...0 α	$\alpha \oplus$ is M ... $\alpha \oplus$ is M	$\alpha \oplus$ is M ... $\alpha \oplus$ is M

$m \quad m \quad m$

	fill DR(n steps)	memory write memsize+ $\lceil \frac{\text{memsize}}{k} \rceil$ steps)	fill DR(n steps)	memory read memsize+ $\lceil \frac{\text{memsize}}{k} \rceil$ steps)
clear	1 0 0 0 ... 0	0 ... 0	1 0 0 ... 0	0 0 ... 0
move	1 1 1 1 ... 1	0 ... 0 1 0 ... 0 1 ...	1 ... 1 0 ... 0 1 0 ... 0 1 ...	0 ... 0 1 ... 1 0 1 ... 0 1 ...
next	0 0 0 0 ... 0	1 ... 1 0 1 ... 1 0 ...	0 ... 0 1 ... 1 0 1 ... 1 0 ...	1 ... 1 0 1 ... 1 0 1 ... 1 0 ...
WE	0 0 0 0 ... 0	1 ... 1 0 1 ... 1 0 ...	0 ... 0 0 0 ... 0 0 ...	0 0 ... 0 0 ... 0 0 ...
D	0 1 0 1 ... $\bar{\alpha}$ α	$\alpha \dots \alpha$ $\bar{\alpha} \dots \bar{\alpha}$ α ...	0 1 0 1 ... α $\alpha \dots \alpha$ $\bar{\alpha} \dots \bar{\alpha}$ α ...	$\bar{\alpha} \dots \bar{\alpha}$ α ...

$n \quad k \quad k \quad n \quad k$

FIG._8

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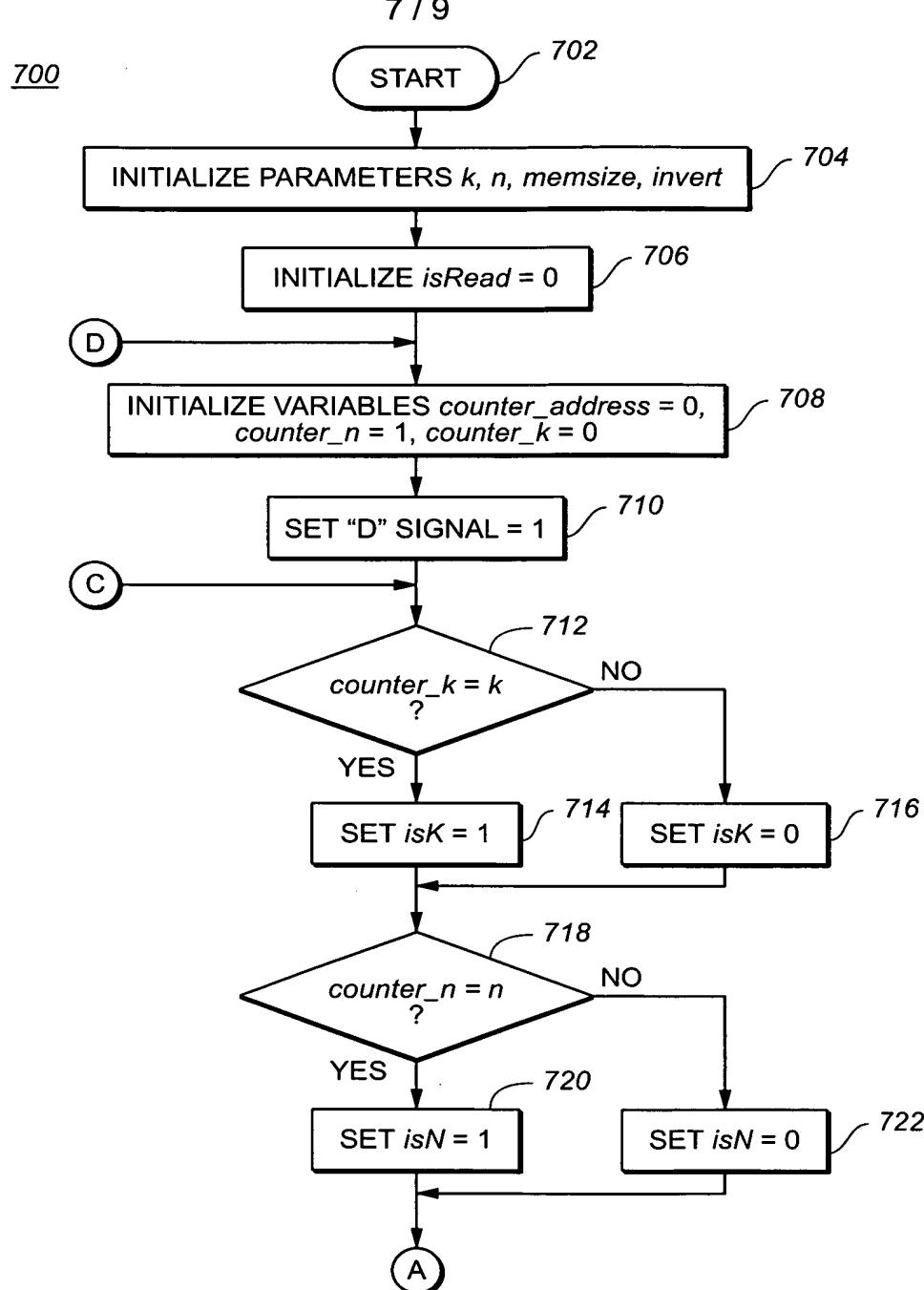
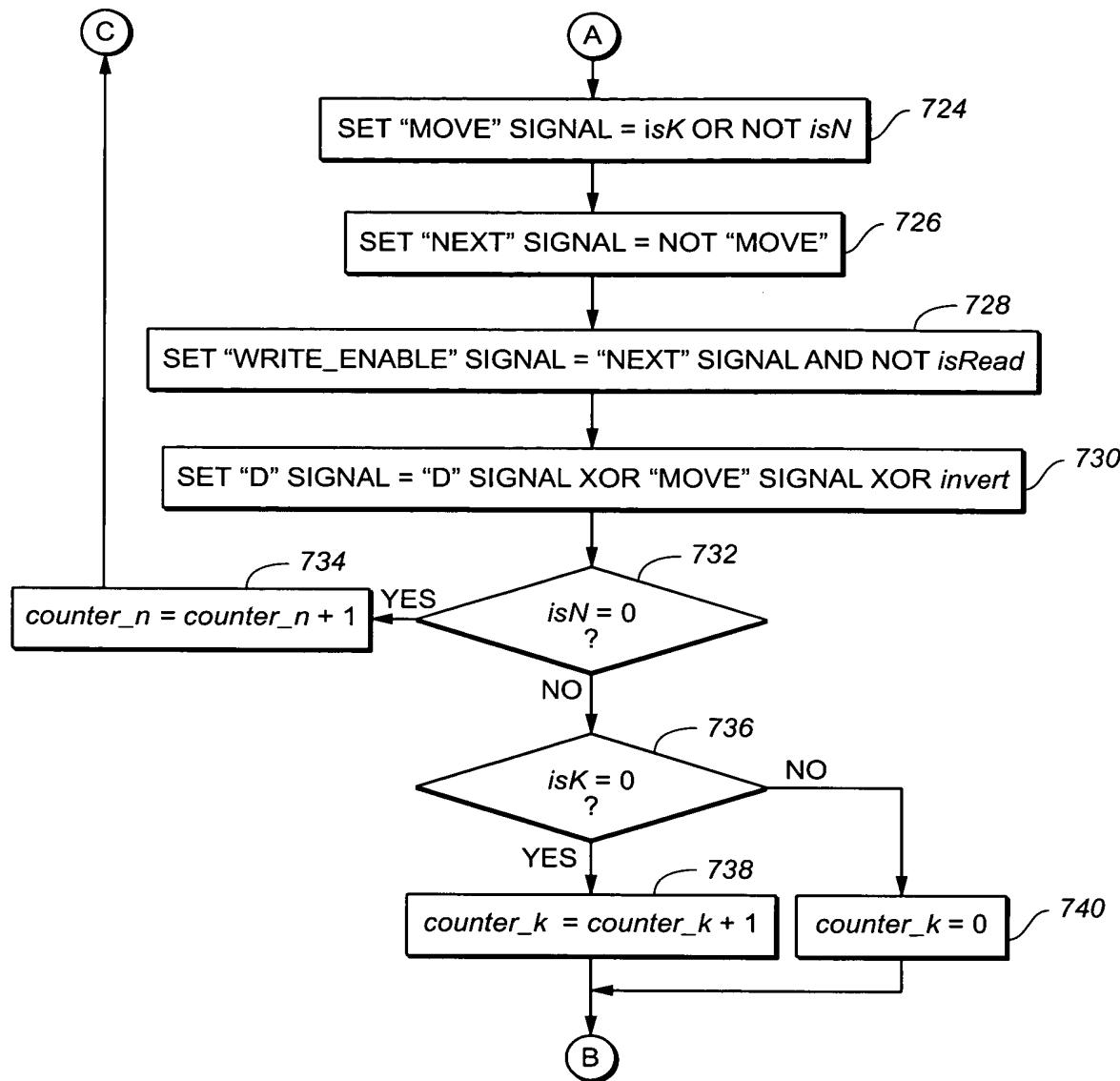


FIG._7A



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**FIG._7B**



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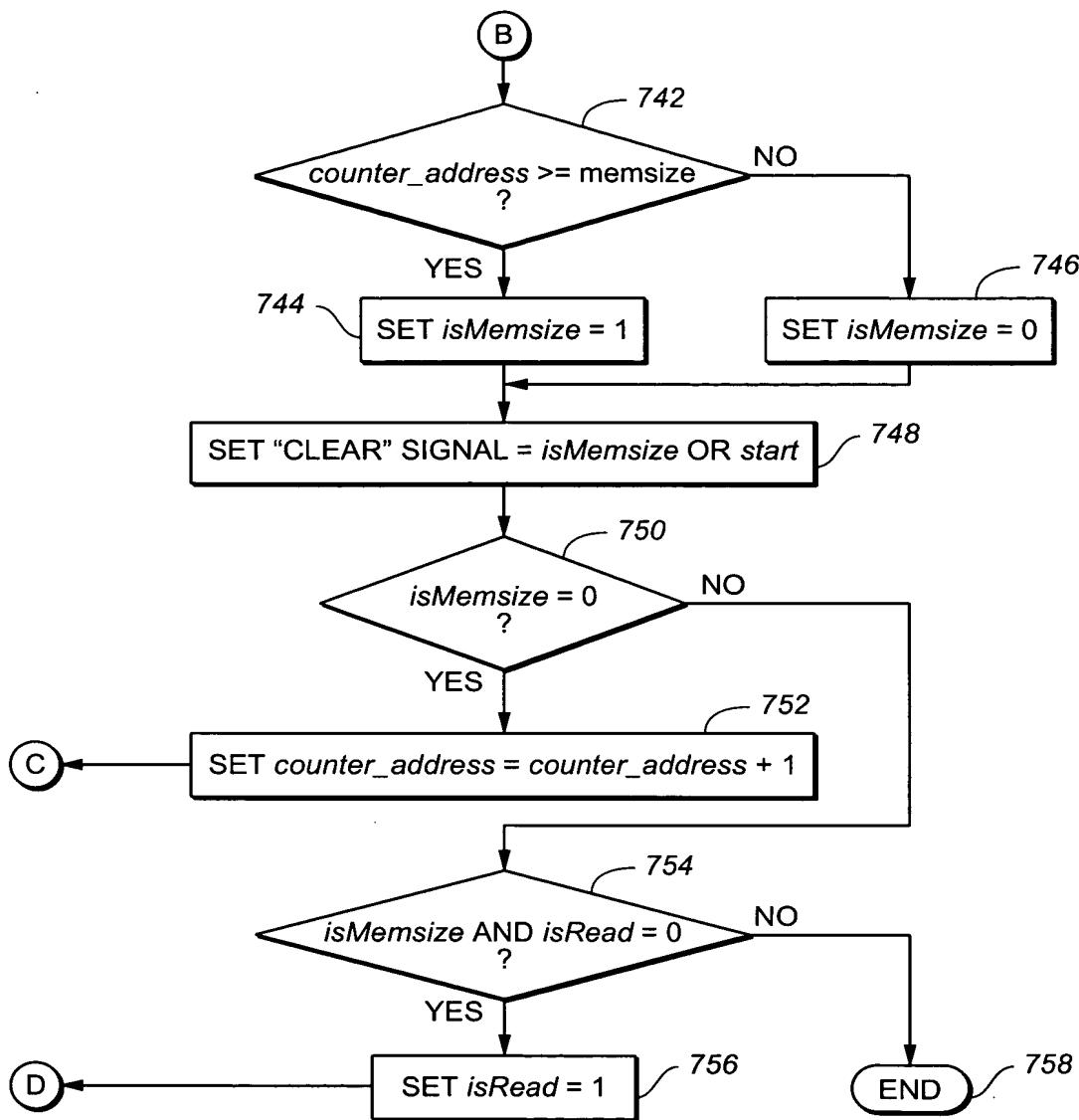


FIG._7C